

- 1 pole selection chart
- 2 plate beam selection table

SPECIFICATIONS

Unless otherwise specified, all cast-in-place concrete is to be at least 3000 psi @ 28 days, 6% air entrained.

All reinforcing steel to be at least 40,000 psi deformed bars; provide 2" concrete cover over reinforcing steel.

All exposed steel to be galvanized or painted to resist corrosion from moisture and manure gases.

All framing lumber is No. 2 (or better), S-P-F species group, unless otherwise specified.

All wood indicated 'pressure-treated' is CCA pressure-treated to a net retention of 0.4 lb/ft³ (ground contact specification, CSA-080 Wood Preservation).

All nails exposed to treated wood, humid atmosphere or weather to be hot-dip galvanized.

This plan is designed to meet the requirements of the Canadian Farm Building Code.

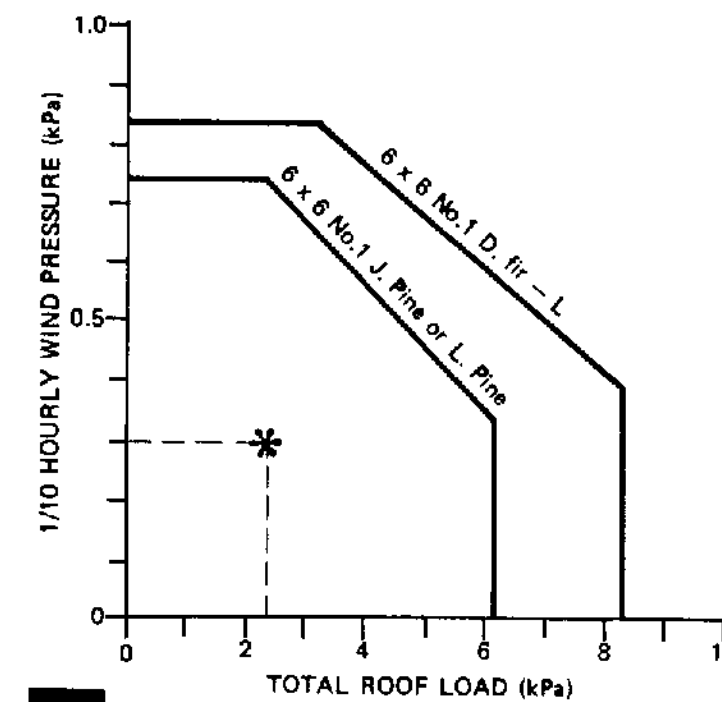
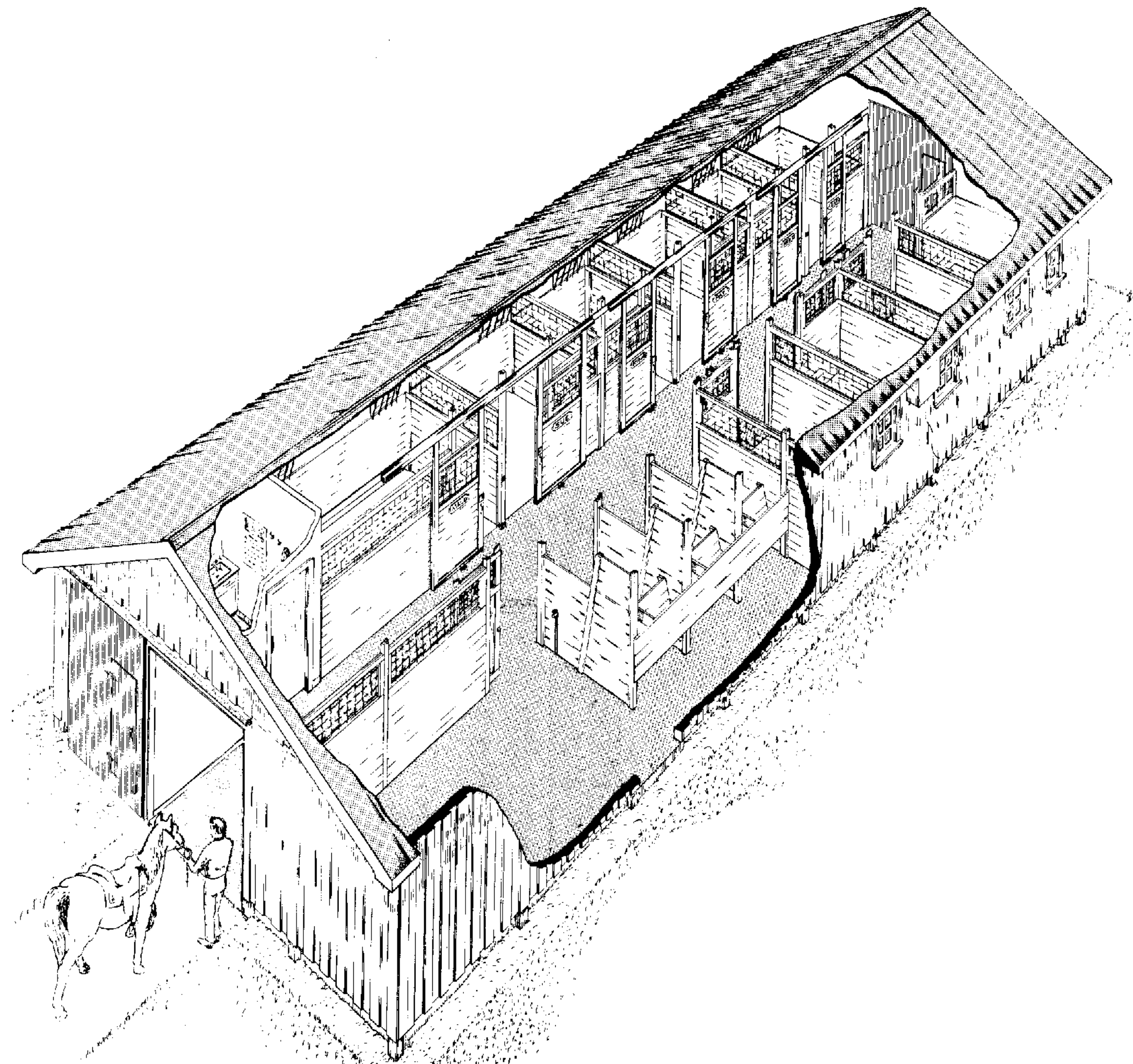
Notes thus marked indicate where this plan gives structural choices to be selected to meet local climatic loads (wind, snow), soil bearing capacity and other local conditions. The plan user must ensure that these requirements are met. Consult an engineer if you are not familiar with the details required.

ONE SET OF DRAWINGS AND LEAFLETS SHOULD INCLUDE:

CPS no.	sheet no.	Title
8202	-1-	Barn for riding horses (6 or 10 box stalls)
8202	-2-	Floor plan and details
8202	-3-	Section and details
8202	-4-	Ventilation, heating & details
		Truss design and spacing to suit local snow + dead load

AND LEAFLETS

8202	Barn for riding horses (6 or 10 box stalls)
9102	Truss erecting and bracing
9451	Rodent and bird control in farm buildings



1

EXAMPLE

Determine pole size for Edmunston, N.B. (ground snow load 3.5 kPa, 1/10 hourly wind pressure 0.30 kPa).

If the roof is fully exposed to wind, the total roof load is:

$$0.6 \times 3.5 \text{ (snow)} + 0.2 \text{ (dead)} = 2.3 \text{ kPa}$$

Enter the pole selection chart at 2.3 kPa total roof load and 0.30 kPa wind pressure (see *).

6 x 6 Jack Pine or Lodgepole Pine poles would be adequate.

2

Plate beam safe uniform total roof load, kPa

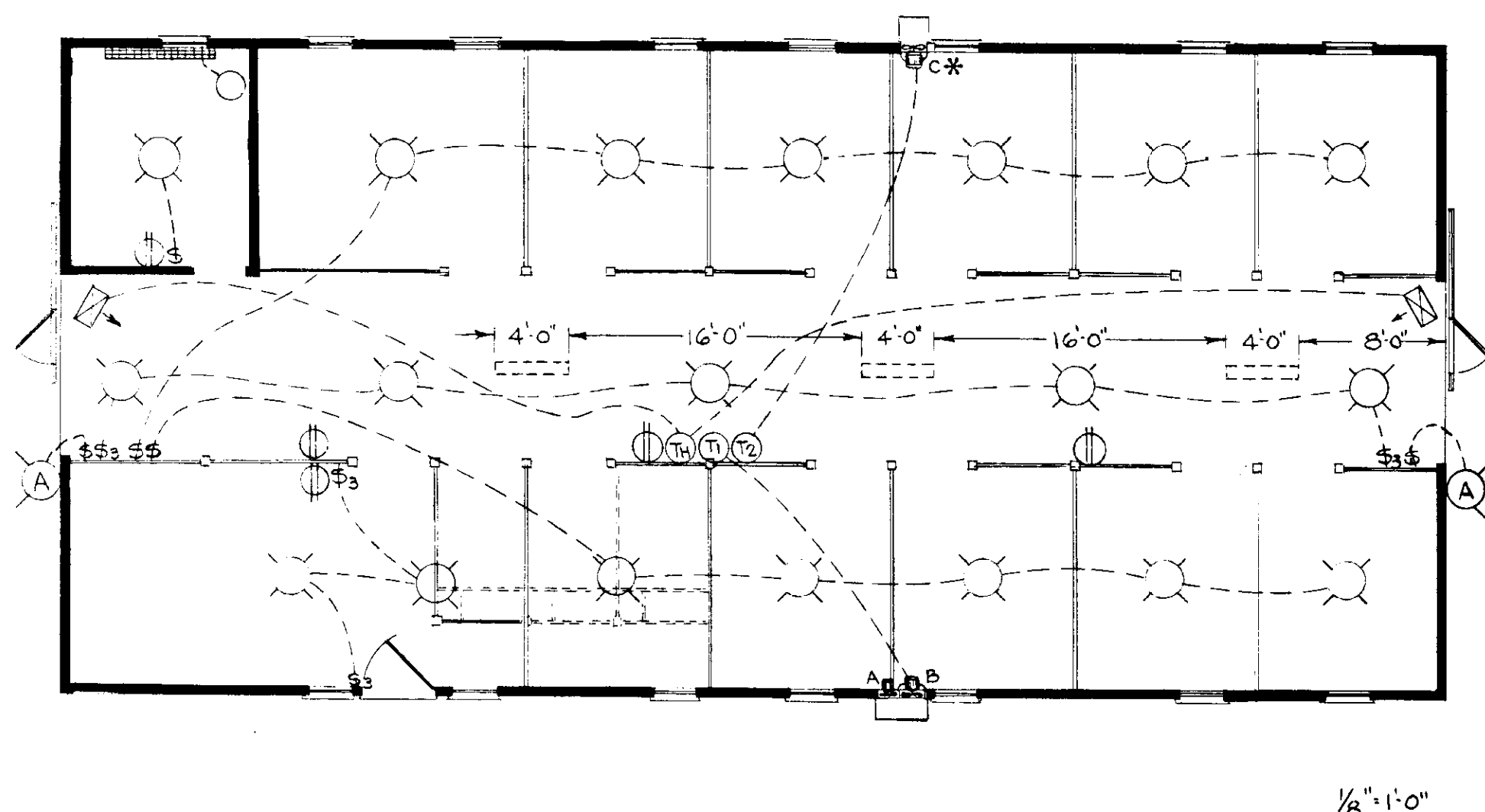
Plate beam	Truss spacing, inches on centre		
No.2 S-P-F	48	32	24
2 - 2 x 8	1.60	1.35	1.29
2 - 2 x 10	2.40	1.94	1.75
2 - 2 x 12	3.06	2.37	2.13
No.2 D. Fir			
2 - 2 x 8	1.36	1.15	1.09
2 - 2 x 10	2.03	1.71	1.63
2 - 2 x 12	2.73	2.31	2.20

	REVISED & RE-ISSUED	H.A.J.	88-01	J.E.T.
SYM	REVISIONS	CHECKED	DATE	APPROVED

CANADA
PLAN SERVICE

BARN FOR RIDING HORSES
6 OR 10 BOX STALLS

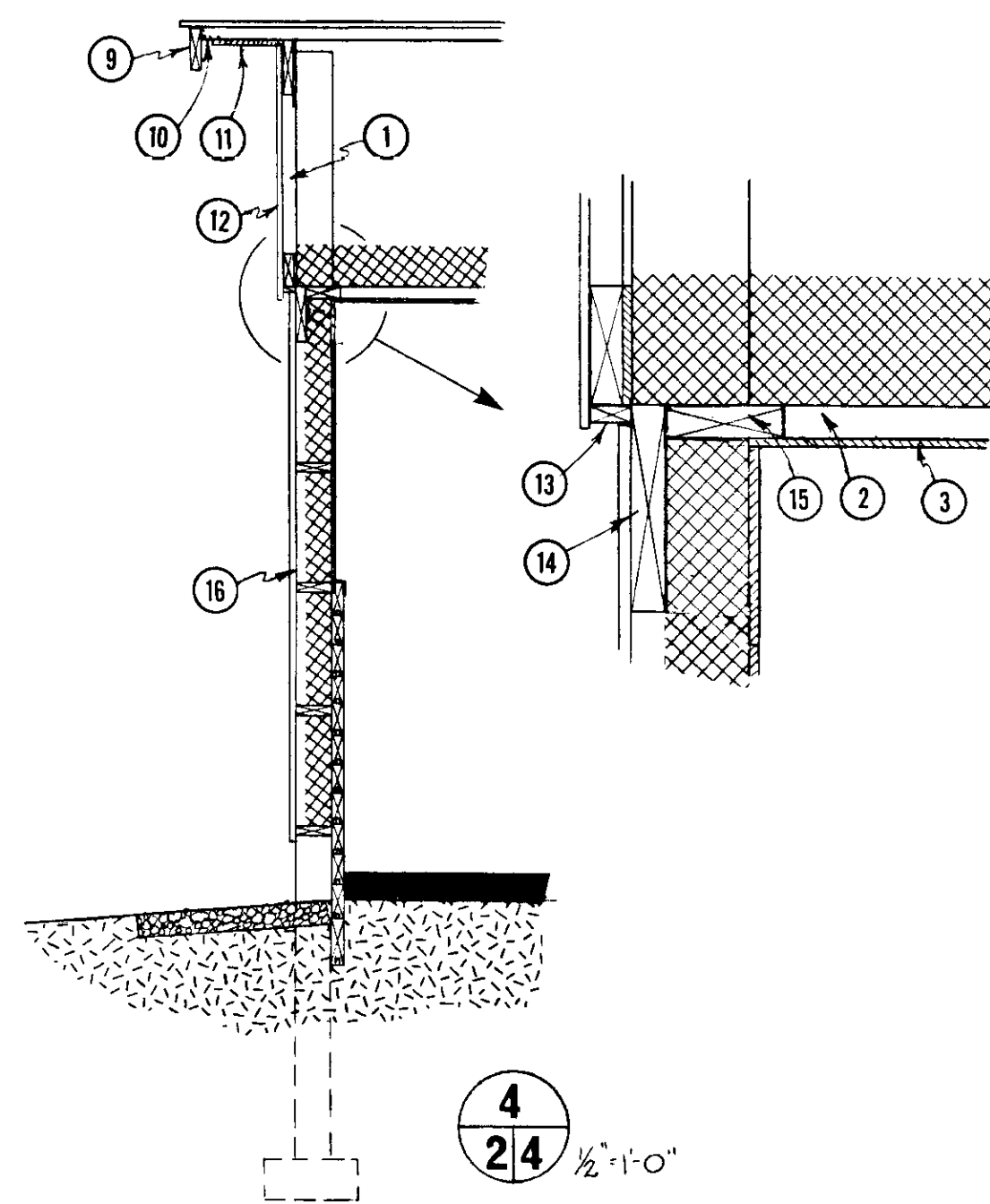
DESIGNED J.E.T.	DATE 72-11	PLAN
DRAWN L.BLAIS	REVISED	8202
TRACED	DETAIL NUMBER A	
CHECKED H.A.J.	ORIGINATES ON SHEET B	
	DRAWN ON SHEET C	SHEET 1 OF 4



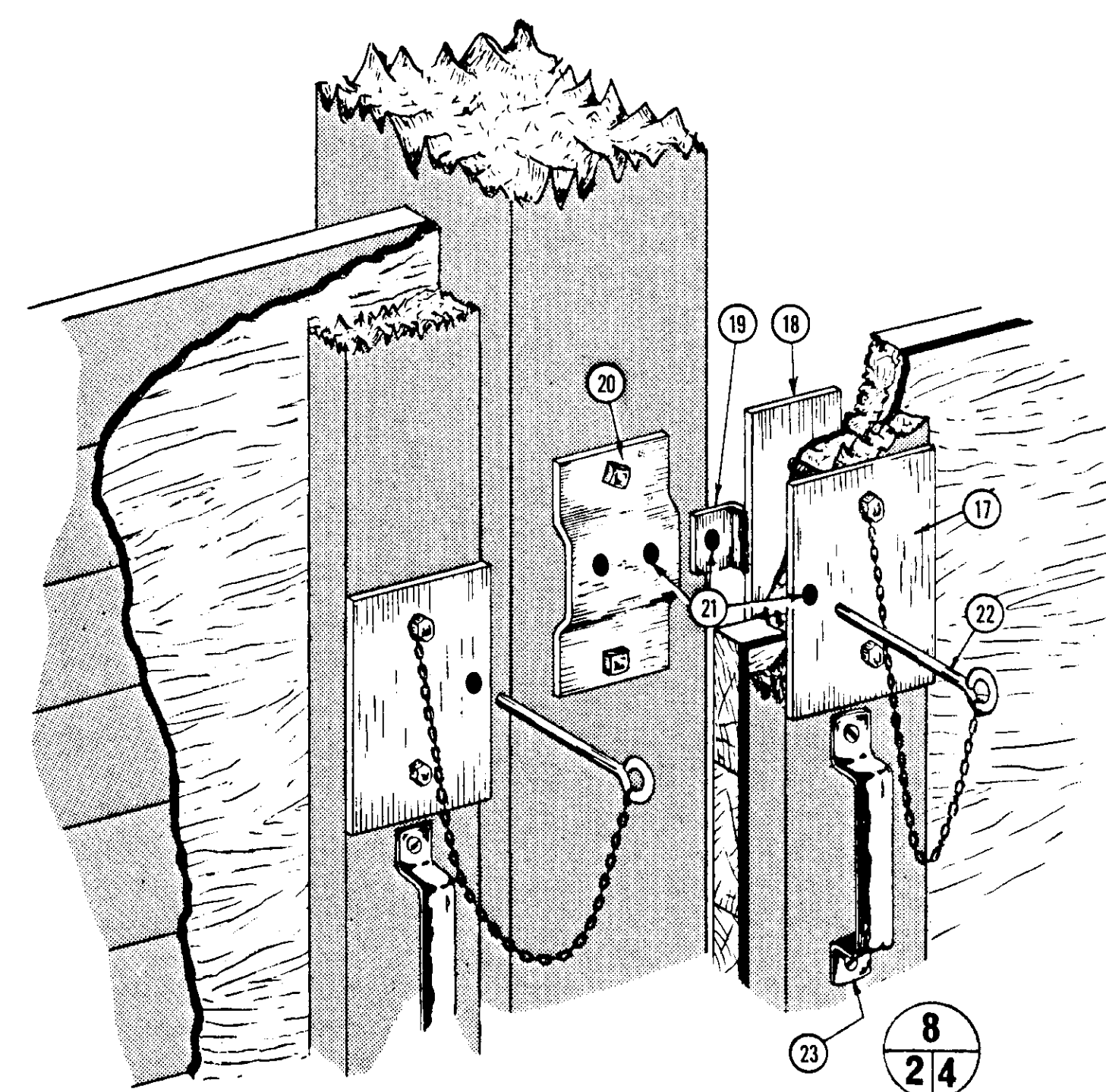
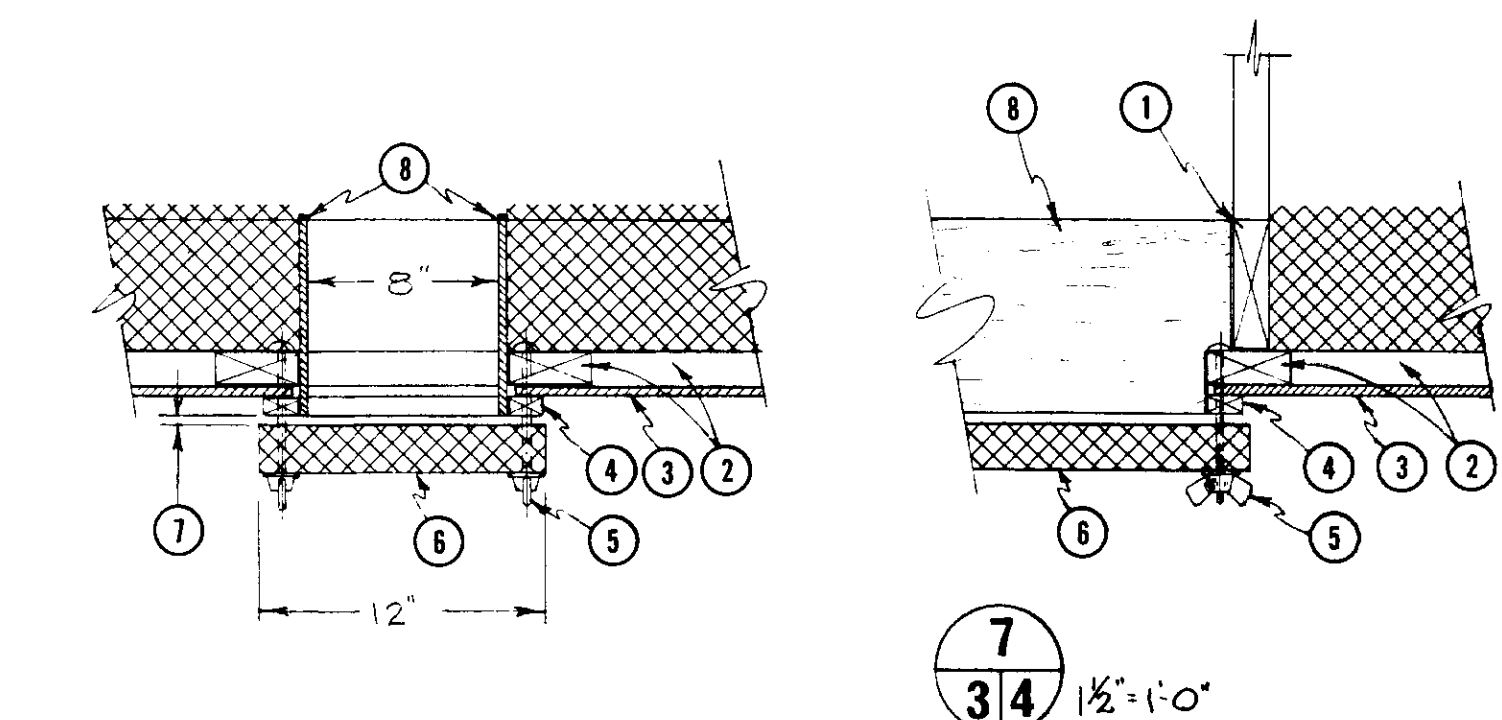
VENTILATION & HEATING SCHEDULE

UNIT	TYPE	CAPACITY	THERMOSTAT CONTROL		INLET ADJUSTMENT
			ON AT	OFF AT	
FAN A	Single speed exhaust	500 cfm @ 1/8" s.p.	Continuous		Cold weather - 3/16"
FAN B	Single speed exhaust	1200 cfm @ 1/8" s.p.	T ₁	52°	Mild weather - 3/4"
FAN C	Single speed exhaust	2000 cfm @ 1/8" s.p.	T ₂ *	62°	Hot weather - open end doors and windows, ceiling inlets closed
UNIT HEATERS	Fan-forced (see power supplier or heating contractor)		T _H	45°	47°

* Fan C and thermostat T₂ are optional. If automatic temperature control is not required in mild weather, open windows for extra ventilation as required.



- 36'-0" trusses, select truss and spacing to suit local snow load, end trusses to have gussets on inside face only
- 2 x 4 nailing girts @ 4'-0" o.c.
- 3/8" plywood ceiling
- 1 x 2 trim, 4 sides of opening
- 1/2" diam. plated carriage bolts, washer and wing nuts for inlet adjustments, 6 per inlet
- 2" extruded polystyrene baffle
- see ventilation table for inlet adjustment
- 3/8" plywood baffle
- 2 x 8 face board
- 2" screened inlet, continuous
- 3/4" wood soffit
- outside cladding
- 1 x 2 filler piece
- 2 x 10 beam notched into post
- 2 x 6 blocking
- endwall construction similar to side wall (see sheet 3)
- 1/8" x 5 1/2" x 6" steel outer plate, drilled for 2 - 3/8" diam. bolts
- 1/8" x 4" x 6" steel inner plate, drilled for 2 - 3/8" diam. bolts
- 1/8" x 1 1/2" high x approx. 2" long; bend and weld to (18) as shown
- 1/8" x 3" wide x 6" long, bend to suit (19), drill for 2 - 3/8" diam. lag bolts
- (17), (18) & (20) to be bolted in place and a 3/8" diam. locking hole to be drilled to receive (22)
- 3/8" diam. locking pin
- door pull



- \$ lighting switch
- \$3 three way lighting switch
- (A) 150 watt par 30 floodlight
- (X) 100 watt incandescent pigtail light fixture
- (II) 115 volts, duplex convenience outlet
- (T_H, T₁, T₂) ventilation thermostat, mounted 5'-6" from floor
- [Heater symbol] 1 kw base board unit heater (with thermostat) if tack room has insulated walls floor to ceiling
- [Fan symbol] fan forced unit heater, bracket hung

REVISED & RE-ISSUED		H. A. J.		88 - 01		JET	
SYM	REVISIONS	CHECKED	DATE	APPROVED			
		VENTILATION, HEATING & DETAILS		PLAN			
DESIGNED	JET	DATE	72 - 11	PLAN			
DRAWN	L. BLAIS	REVISED		8202			
TRACED		DETAIL NUMBER	A	SHEET 4 OF 4			
CHECKED	H. A. J.	ORIGINATES ON SHEET	B				
		DRAWN ON SHEET	C				